AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the Application. Deletions are ~~strikethrough~~ and additions are underlined.

1. (Previously presented) A planar antenna fitted with a reflector comprising: a radiator; and a reflector of planar form whereof both side sections, arranged to the rear of and facing towards said radiator with only a prescribed separation (D), are bent towards said radiator, where λ is the wavelength of the central frequency of the operating frequency band, characterized in that said prescribed separation (D) of said radiator and said reflector has a range from about 0.06 λ to 0.15 λ, and the separation between the leading edges of two side sections in said reflector and said radiator is not greater than 0.06 λ.

2. (Canceled)

3. (Currently amended) The planar antenna fitted with a reflector of claim 1, characterized in that said radiator is selected from the group consisting of a dipole, stacked dipole, biconical, loop, triangular double loop ~~or~~ and rectangular double loop ~~radiator~~.

4. (Previously presented) The planar antenna fitted with a reflector of claim 1, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent an obtuse angle at the two side sections of said front face section is arranged to face towards said radiator, the two side edges thereof are bent to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.

5. (Canceled)

6. (Previously presented) A planar antenna fitted with a reflector comprising: a radiator of planar form which has at least upper and lower sides and comprises a double loop element wherein the width of said upper and lower sides is formed wider than that of the other sides thereof; and a reflector of planar form whereof both side sections, arranged to the rear of and facing towards said radiator with only a prescribed separation (D), are bent towards said radiator, where $\lambda$ is the wavelength of the central frequency of the operating frequency band, characterized in that said prescribed separation (D) of said radiator and said reflector has a range from about 0.06 $\lambda$ to 0.15 $\lambda$, and the separation between the leading edges of two side sections in said reflector and said radiator is not greater than 0.06 $\lambda$.

7. (Canceled)

8. (Previously presented) The planar antenna fitted with a reflector of claim 6, characterized in that said radiator comprises a triangular double loop element or rectangular double loop element, the width of the upper and lower sides of said radiator being about 0.06 $\lambda$ to 0.1 $\lambda$.

9. (Previously presented) The planar antenna fitted with a reflector of claim 6, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent an obtuse angle at the two side sections of said front face section is arranged to face towards said radiator, the two side edges thereof are bent to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.

10. (Canceled)

11. (Previously presented) A planar antenna fitted with a reflector comprising: a radiator; and a reflector of planar form whereof both side sections of a rectangular metallic plate are bent substantially at right-angles towards the radiator, arranged to the rear of and facing towards said radiator with only a prescribed separation (D), are bent towards said radiator, where λ is the wavelength of the central frequency of the operating frequency band, characterized in that said prescribed separation (D) of said radiator and said reflector has a range from about 0.06 λ to 0.15 λ, and the separation between the leading edges of two side sections in said reflector and said radiator is not greater than 0.06 λ.

12. (Currently amended) The planar antenna fitted with a reflector of claim 11, characterized in that said radiator is selected from the group consisting of a dipole, stacked dipole, biconical, loop, triangular double loop ~~or~~ and rectangular double loop ~~radiator~~.

13. (Previously presented) The planar antenna fitted with a reflector of claim 11, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent an obtuse angle at the two side sections of said front face section is arranged to face towards said radiator, the two side edges thereof are bent to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.

14. (Currently amended) The planar antenna fitted with a reflector of Claim 11, where the radiator is of planar form, has at least upper and lower sides and comprises a double loop element, wherein the width of said upper and lower sides is formed wider than that of the other sides thereof.

15. (Previously presented) The planar antenna fitted with a reflector of claim 14, characterized in that said radiator comprises a triangular double loop element or rectangular double loop element, the width of the upper and lower sides of said radiator being about 0.06 λ to 0.1 λ.

16. (Previously presented) The planar antenna fitted with a reflector of claim 14, characterized in that said reflector is formed whereof a front face section facing towards said radiator, and bent sections thereof are bent an obtuse angle at the two side sections of said front face section is arranged to face towards said radiator, the two side edges thereof are bent to cross almost rectangularly against said front face section of the leading edge of said bent sections are arranged.